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**ORD 2230-65**

**12 August 1965**

**MEMORANDUM FOR: Deputy Director for Science and Technology**

**SUBJECT: NPIC**

**REFERENCE: Memorandum for Executive Director from  
DDCI, 13 July 1965, same subject**

1. It is bureaucratically correct that ORD should probably not make a move in the sense of doing NPIC's research for them without direction by the DDCI. As a matter of information, Attachment A shows projects currently under way and projected which have a bearing on the NPIC problem. In terms of dollar effort, Attachment B shows the relative R&D effort, for NPIC and ORD, in the years FY 64 - 66.

2. On the question as to whether DD/S&T should review NPIC research, I feel that if ORD is going to do a broader based R&D effort, and because of the possible magnitude of the NPIC effort, it is essential that DD/S&T review and work with NPIC projects and personnel in order to close the loop between R&D on analysis techniques and future systems and what could develop into a number of fancy systems for ingestion.

3. There is no question that the ORD analysis capability, integrated with efforts in the other divisions, would be of help to NPIC. In particular, the cross-fertilization of the analysis area with the human factors area is a necessary ingredient to the successful solution of the man/machine interface problem, since no one has yet been able to specify the percentage of man or the percentage of machine as the optimum ratio in solving problems of this type. We know 100% automation is impossible, and 100% human effort alone can only lead to chaos and a vast bureaucracy. The problem is not unique in this area.

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4. It is probably further desirable to point out that it takes time to put together a technical team capable of wrestling with problems of this scope and complexity. While ORD is not staffed up sufficiently to say we will do it, we do feel that we have a viable technical group with a bit of a head start in some of the relevant areas, and that we should participate in this problem on a long range basis.

ROBERT M. CHAPMAN  
Director of Research and Development

Attachments  
a/s

ORD/DD/S&T/RMChapman:mh

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Next 1 Page(s) In Document Exempt

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